



SCIENTIFIC UPDATES

ICIQ



The first generation of **photoactive materials** have been optically **characterized** and **rhodamine has been selected** as the photosensitizer of choice to be dispersed in different supporting polymers.

Moreover, **two new photosensitizers** based on the quinoxaline core have been synthesized and their optical properties measured.

Their light emitting properties match the absorption spectra of the photocatalysts, so they have been selected for dispersion in supporting polymers.

SOCAR

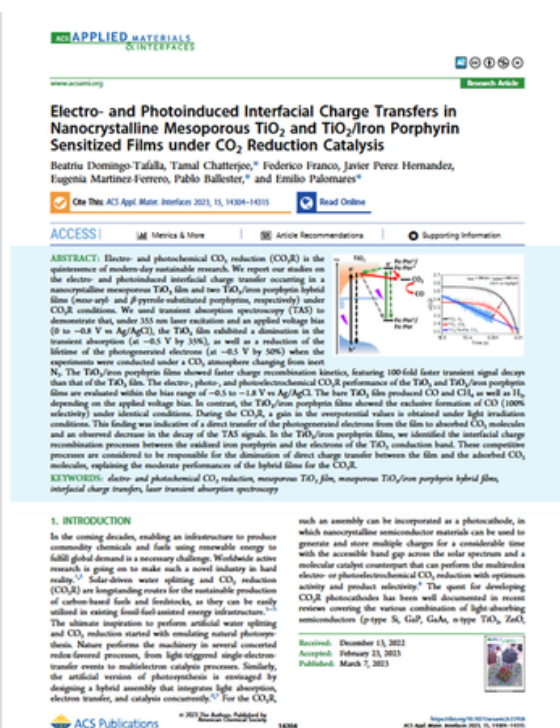
SOCAR has officially started the **construction for NEFERTITI**, which includes the infrastructure, physical enclosure, and landscaping work for the demo unit.

Having a 90 m² total area with a 42 m² enclosure on it, the area will serve as an **indoor-outdoor mini-lab for the NEFERTITI system**.





JOURNAL PUBLICATIONS



The article “Electro- and Photoinduced Interfacial Charge Transfers in Nanocrystalline Mesoporous TiO_2 and TiO_2 /Iron Porphyrin Sensitized Films under CO_2 Reduction Catalysis” has been published at ACS Applied Materials & Interfaces, by ACS Publications.

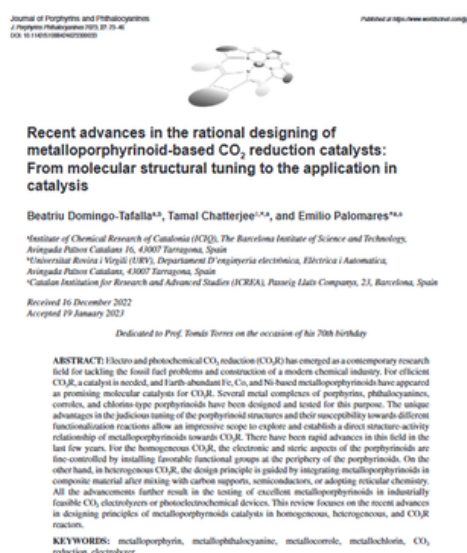
DOI: <https://doi.org/10.1021/acsami.2c22458>

PARTNER: ICIQ

The scientific article titled “Recent advances in the rational designing of metalloporphyrinoid-based CO_2 reduction catalysts: From molecular structural tuning to the application in catalysis” was published on Journal of Porphyrins and Phthalocyanines.

DOI: <https://doi.org/10.1142/S1088424623300033>

PARTNER: ICIQ



1577 full member in good standing.
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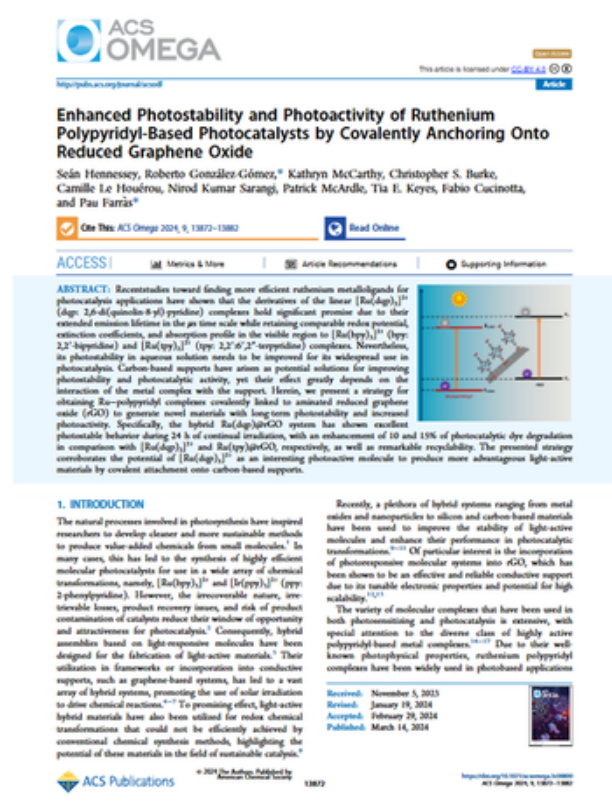


JOURNAL PUBLICATIONS

The article, *“Enhanced Photostability and Photoactivity of Ruthenium Polypyridyl-Based Photocatalysts by Covalently Anchoring Onto Reduced Graphene Oxide”* has been published at the “ACS Omega” Journal, by ACS Publications!

DOI: <https://doi.org/10.1021/acsomega.3c08800>

PARTNER: University Of Galway

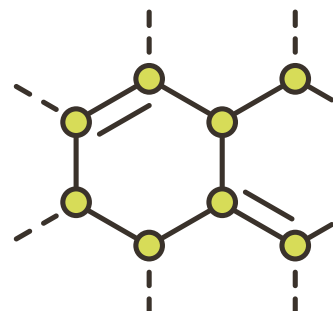




SOCIAL ACTIVITIES

 **Nordic-Irish Process Chemistry Forum**

 **7-9 June 2023**  **Belfast, Northern Ireland**

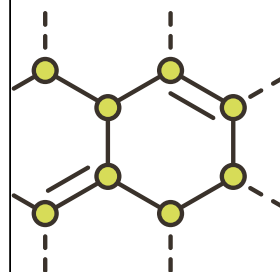


 **XXXIX Biennial of the Spanish Royal Society of Chemistry**

 **25-29 June 2023**  **Zaragoza, Spain**

 **25th Int. Symposium on Photochemistry & Photophysics of Coordination Compounds**

 **25-29 July 2023**  **Ulm, Germany**

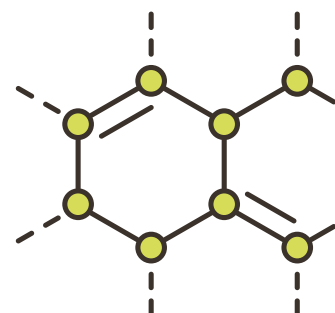




SOCIAL ACTIVITIES

CCUS Cluster Workshop (2023)

 17 20 September 2023  Brussels, Belgium

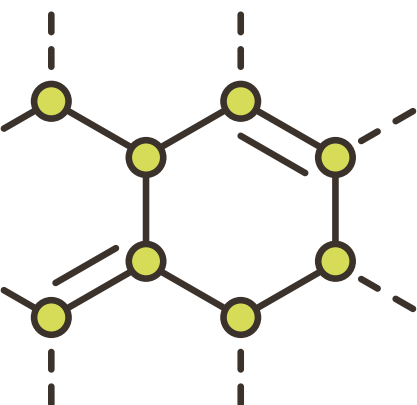


14th Continuous Flow Reactor Technology Symposium

 17 26-28 September 2023  Dublin, Ireland

Chemspec Europe 2024

 17 19-20 June 2024  Dusseldorf, Germany



ACHEMA 2024

 17 10-14 June 2024  Frankfurt, Germany





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The project NEFERTITI has received funding from the European Union's Horizon 2020 research and innovation programme under Grant Agreement No. 101022202